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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MODULAR REGENERATIVE HEAT EXCHANGER SYSTEM



(57) Abstract: A plurality of independently operable regenerative heat exchanger modules (1-5) are provided to regeneratively transfer heat from a hot gas to a cold gas. The regenerative heat exchanger modules are connected to a regenerative heat exchanger system controller (1p-5p) which staggers the operation of each regenerative heat exchanger module to simulate the operation of a rotary regenerative heat exchanger. The regenerative heat exchanger system controller can manually or automatically take selected ones of the regenerative heat exchanger modules off-line while the remaining regenerative heat exchanger modules continue to simulate the operation of the rotary regenerative heat exchanger. Also disclosed are a control system and a method for operating a number of independently operable regenerative heat exchanger modules to simulate the operation of a rotary regenerative heat exchanger.

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US03/00998

#### CLASSIFICATION OF SUBJECT MATTER Α.

IPC(7) :F28D 17/00

US CL : 165/4, 8, 9.3, 10

According to International Patent Classification (IPC) or to both national classification and IPC

#### FIELDS SEARCHED В.

Minimum documentation searched (classification system followed by classification symbols)

#### U.S. : 165/4, 8, 9.3, 10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
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Y,P	US 6,450,244 B1 (BASSILAKIS) 17 S PATENT.	EPTEMBER 2002, ENTIRE	1-30	
Y	US 3,225,819 A (STEVENS) 28 D PATENT.	ECEMBER 1965, ENTIRE	1-30	
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Y	US 1,920,885 A (PETIT) 01 AUGUST	Γ 1933, ENTIRE PATENT.	1-30	
X Further documents are listed in the continuation of Box C. See patent family annex.				
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International application No. PCT/US03/00998

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
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